Capability Gap Brief

Offensive Air Support
Offensive Anti Air Warfare

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FMID Top Ten Gap Listing

FMID Section	Priority
Unmanned Aircraft Systems	1
Assault Support	2
Target Acquisition	3
Counter fire / Targeting	4
Fire Support Coordination	5
Information Operations	6
Personal Equipment	7
Small Arms / Crew-Served	8
Mobility / Counter-Mobility	9
Rockets / Artillery	10
Riverine / Special Operations	11
Public Affairs	12
Offensive Air Support	**13**
Electronic Warfare	14
Civil Affairs	15
Offensive Anti-Air Warfare	**16**

FMID Top Ten Gap Listing

G – Gap, E – Excess, S – Shortfall, N - NA

Highest Pri JCA supported and total number	*FMID Section/* **# MCTL tasks**	Description of Capability Gap by FMID section across applicable tasks	FMID Pri	G/E/ S/N	Gap Mitigation	
					POM-10	Beyond
Global Posture/ **17 JCA's supported**	*Offensive Air Support/* **Supports 25 of 49 FMID FAA tasks**	**Capacity gap in F/W OAS capabilities during transition to JSF. Delays in JSF acquisition across FYDP will increase capability gap for OAS. Capability gap in H-1 data-link capability. End strength increase potential to increase capability gap.**	13	G	**Y**	**Y**
Global Posture/ **14 JCA's supported**	*Offensive Anti-Air Warfare/* ***Supports 21 of 49 FMID FAA tasks***	**Capacity gap in F/W OAAW capabilities during transition to JSF. Delays in JSF acquisition across FYDP will increase capability gap for OAAW in high threat IAD theaters. Capability gap in H-1 data-link capability. End strength increase potential to increase capability gap.**	16	G	**Y**	**Y**

Capability Analyzed
Offensive Air Support

14 JCA's supported: Hi Pri-Global Posture

21 MCT's supported : Hi Pri-Conduct Maneuver

Deficiencies in Conditions: Unable to support data communications for R/W mission updates. Shortfall in capability to provide F/W capabilities in all basing options. Unable to provide deep strike in sophisticated IAD environment.

Deficiencies in Standards: Capability gap in H-1 data communications capabilities. Shortfall in F/W 5th generation STOVL capabilities across FYDP as JSF is acquired. Potential critical shortfalls with increase in end-strength.

Possible DOTMLPF Implications:

Gap, Excess, or Shortfall

O	**End strength increase will potentially increase capability gaps.**
T	**S – JSF training demands will limit F/W OAS capabilities during transition to JSF**
M	**S – Delay in JSF acquisition will limit OAS capabilities.** **G – Data communications for R/W OAS platforms.**

Inputs utilized for analysis:

- MAGTF FAA dtd Jun 2006
- STOM CONOPS
- Grey Book
- Marine Aviation Requirements Study
- H-1 CDD
- JSF JORD
- Naval JSF variant mix study
- JSF SAR

Current PORS:

- Joint Strike Fighter –Provides 5th generation STOVL multi-mission weapons platform ISO all MAGTF and Joint operations.
- AH-1 and UH-1 Helicopters – Provides R/W capabilities for CAS, DAS, escort and FAC(A)/TAC(A) missions.

Supporting Element PORS:

- TLDHS/JETS
- CAC2S

Capability Analyzed
Offensive Anti-Air Warfare

14 JCA's supported: Hi Pri-Global Posture

21 MCT's supported : Hi Pri-Conduct Maneuver

Deficiencies in Conditions: Unable to provide adequate OAAW capabilities in high IAD threat theaters.

Deficiencies in Standards: Unable to provide full data-link capabilities for OAAW missions. Capacity gap 5th generation capabilities.

Possible DOTMLPF Implications: O and M.

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Impact on the MAGTF

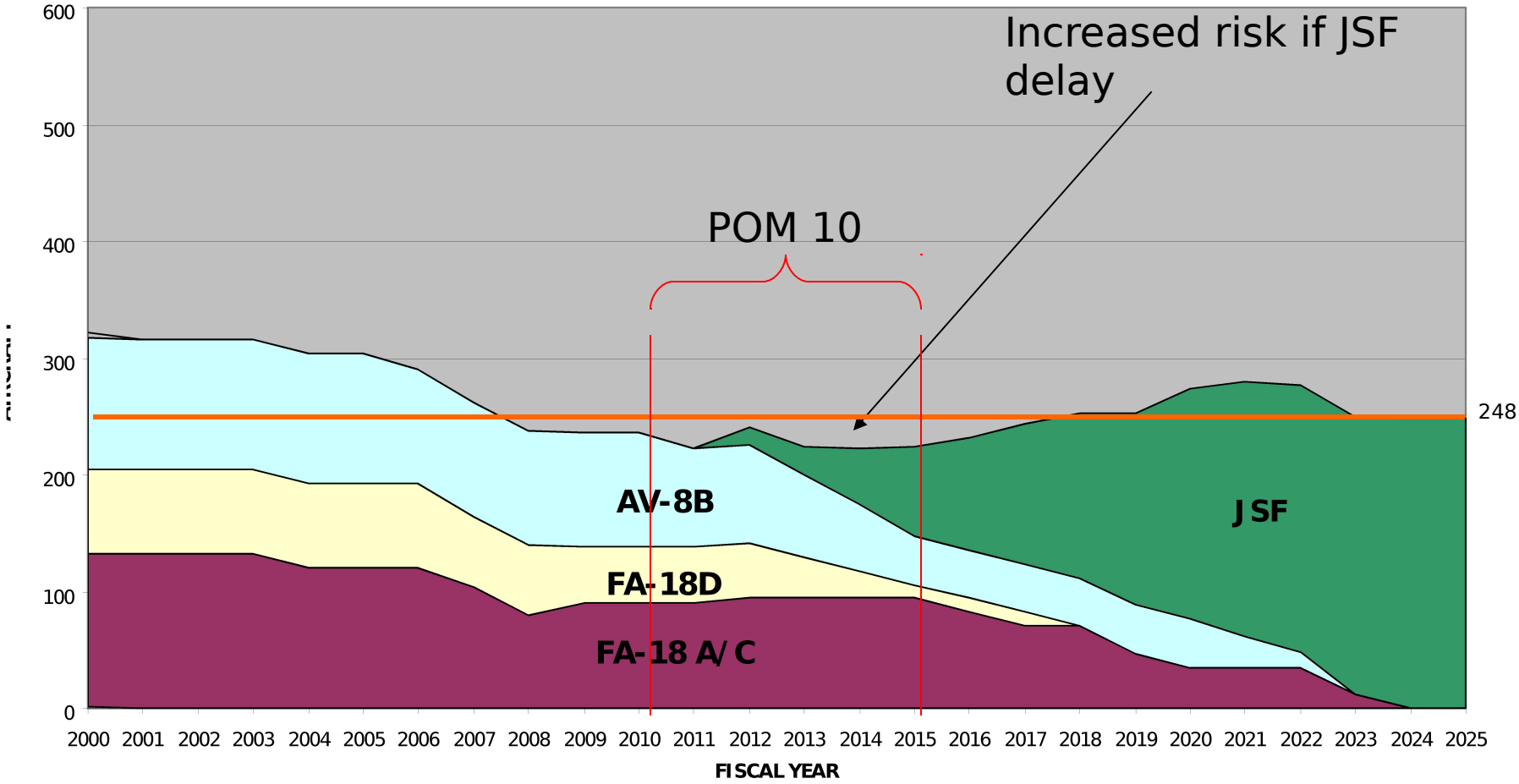
- **Explain how the gap was identified and why it is so important to the Marine Corps to mitigate.**
  - **Gaps identified in Marine Aviation Requirements Study, JSF Mix Study, MAGTF Fires Study, JPO and PMA programmatic briefs.**

Key Attributes Needed to Resolve the Gap

- **OAS and OAAW gaps are capacity gaps vice capability gaps.**
- **JSF and H-1 acquisition present maximum accepted risk throughout POM 10 FYDP.**
  - Any delay to JSF IOC of 2012 will introduce unacceptable risk to capabilities.
    - Naval JSF variant mix requires resolution
    - USMC - 420 STOVL JSF POR
  - Any delay to AH-1 IOC of 2011 will introduce unacceptable risk to capabilities.
    - CDD approval.
    - Program restructure.
  - H-1 digital data exchange

MAGTF Attack Aircraft

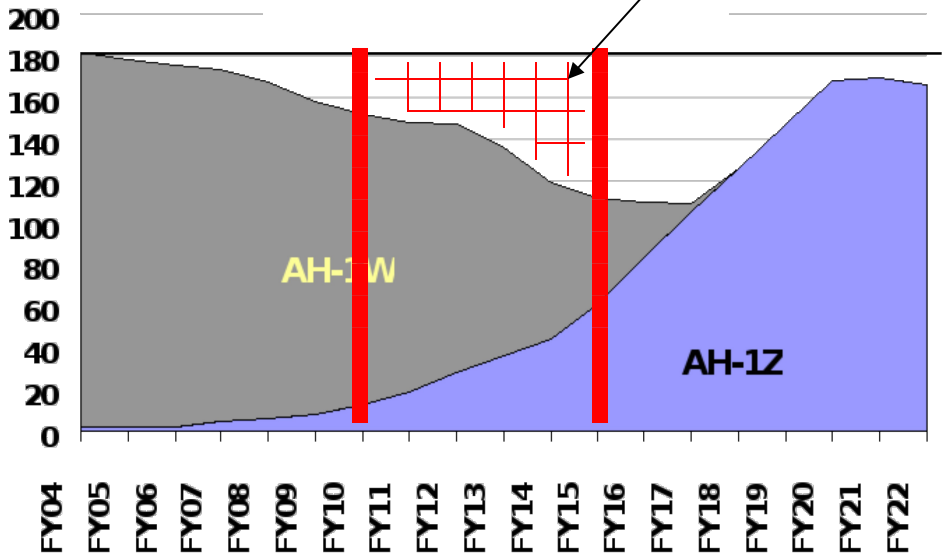
USMC Operational TACAIR Aircraft



AH-1Z

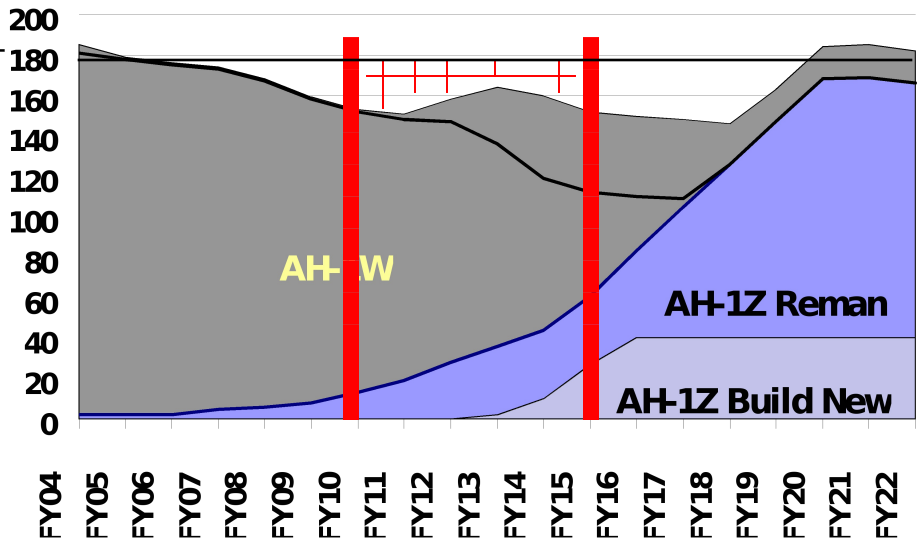
Increased risk if H-1
program not restructured

POM 10



Current

POM 10



Restructure

Key Attributes Needed to Resolve the Gap (cont)

- **Common Ordnance**
  - PDM 753 killed Joint Common Missile (JCM)
  - Re structured to Joint Air-to-Ground Missile (JAGM)
    - AGM-65 inventory critically low (below 100 weapons DoD wide)
    - AGM-114 Hellfire inventory also low

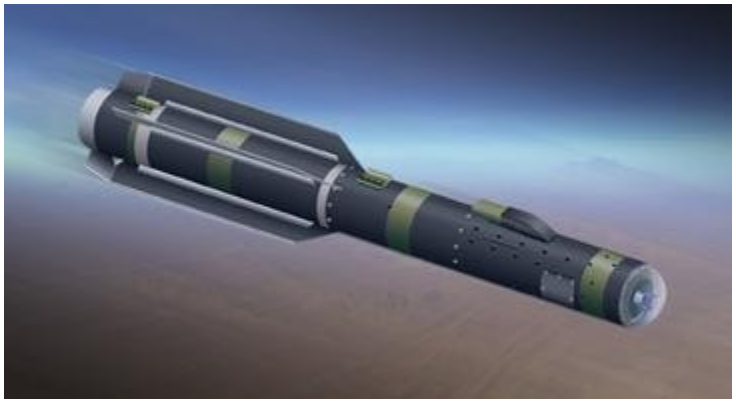
- **All Weather and Moving Targets**
  - Dual Mode Laser Guided Bomb ensures all weather and moving target capability with combined GPS/INS and laser homing.
  - Small Diameter Bomb (SDB) has similar functionality

- **Low Collateral Damage Precision Fires**
  - 5” Laser Guided Zuni rocket
  - APKWS
  - SDB

AGMs

AGM-65 Maverick

AGM-114 Hellfire



Joint Common Missile

Joint Air Ground Missile

Guided Bomb Units

Now

Paveway II: Laser Guided

- Fixed or moving targets
- Requires clear air in terminal phase of flight

JDAM: GPS/INU Guided

- Fixed targets only
- True all weather

Future

Laser JDAM combines INS/GPS guidance with laser homing capability

Small Diameter Bomb

- As a glide bomb adds stand-off to dual mode precision
- 250lbs low CDE
- JSF will carry 8 internal SDBs
- JSF will carry 16 external SDBs for total of 24 bombs
- No SDB plans for Legacy AV-8/F-18
- Dropped in OIF in the Fall by

Laser Guided Zuni: *Back to the future*

- Proven technology
- High inventory
- Small CDE explosive yield
- Compatible with all legacy aircraft
- UUNS submitted by I MEF in December 2006 to retrofit existing 5” zuni rocket inventory with laser guided seeker head

New or Current Capability Issues

- **Was the gap identified because we are establishing a new capability? An addition or improvement of an existing capability? If yes, explain:**
  - No, retaining OAS and OAAW capability.
  - Yes, we are improving an existing capability

- **Is there a similar or duplicative capability gap being analyzed? If yes, can this gap be folded into that effort?**
  - No.

- **Is the basic capability MC unique? If not, describe how this capability is addressed by other services. If another service also has a capability gap, describe its mitigation initiatives.**
  - OAS and OAAW missions are not unique.
  - ACE within MAGTF is unique
  - USAF – F-22, JSF
  - USN – JSF, F/A-18E/F.
  - USA –AH-64

Integration Concerns

- **Describe critical linkage(s) to other Integration Divisions. If none, so state.**
  - Critical linkage within C2ID
    - CAC2S
    - CID
    - JC2 (JCAS)
  - Critical linkage to IID
    - ISR
  - Critical linkage to SBID
    - Increase in MEU/MEB ACE size/weight aboard amphibs
  - Critical linkage to FMID
    - JTAC/JETS

Doctrine/OTLPFM Analysis

- **What published doctrine addresses the capability? Is the published doctrine current?**
  - **MCWP 3-2 Aviation Operations**
  - **MCWP 3-22 Anti-air Warfare**
  - **MCWP 3-22.2 Suppression of Enemy Air Defenses**
  - **MCRP 3-22.2C J-SEAD Joint Suppression of Enemy Air Defenses (ALSA)**
  - **MCWP 3-23 Offensive Air Support**
  - **MCRP 3-23A JAAT MultiService Procedures for Joint Air Attack Team Operations**
  - **MCWP 3-23.2 Deep Air Support**
  - **MCRP 3-25H MTTP for Killbox Operations (ALSA)**
  - **MCWP 3-26 Air Reconnaissance**
  - **MCWP 3-43.3 MAGTF Fires**
  - **MCRP 5-11.1 Aviation Planning**
  - ***All pubs in or nearing revision***
  - **JP 3-09 Joint Fire Support**
  - **JP 3-09.3 Joint TTP for CAS (early revision)**

What doctrinal changes result from new/enhanced capabilities being introduced to mitigate this gap?

- None.

D/Organization/TLPFM Analysis

- **Assumptions: organizational change issues limited to adjustments within existing force structure.**
- **What organizational changes, if any, will eliminate or mitigate the capability gap?**
  - Increase to number of VMFA squadrons.
    - Supported by 202K Marine Corps
  - Increase to number of HMLA squadrons
    - Supported by Aviation Transition Strategy and 202K Marine Corps

DO/Training/LPFM Analysis

- **How could training be modified or provided to mitigate or eliminate the gap?**
  - Training in itself will not mitigate this gap.
- **What training requirements are identified for the fielding of new equipment?**
  - Tri-Service initial and sustainment JSF training
  - Aviation Training Systems (ATS)
- **Who can provide the required training?**
  - Training requirements will be delineated in the AvPlan and by execution of the platform TTF Plans.

DOT/Leadership/PFM Analysis

- **Can leadership decisions mitigate gap? If yes explain.**
  - Yes
    - Support 420 STOVL JSF acquisition
    - Support H-1 program restructure
- **What leadership experience/change is required to meet or mitigate gap? If yes explain.**
  - None.
- **Is organizational leadership needed to support change? If yes explain.**
  - Yes. Leadership decision on JSF variants

DOT/Personnel/FM Analysis

- **Describe personnel changes which can be done to eliminate gap?**
  - There are no personnel changes that will mitigate this gap.
- **Can MOS realignment mitigate the gap?**
  - No.

DOTP/Facilities/M Analysis

- **There are no facilities changes that will mitigate the identified gaps in Offensive Air Support nor Offensive Anti-Air Warfare.**

DOTLPF/Materiel Analysis

- **Are there current materiel solutions available to mitigate the capability gap?**
  - **If "yes", describe the recommended solution.**
    - Yes
      - Support 2012 IOC of JSF
      - Support H-1 Program restructure
      - Incorporate digital data exchange into H-1
- **Are there any current service/joint solutions available which meets the requested capability? If yes explain.**
    - Yes
    - JSF is Joint POR
  - **Is MC participating in another service's program?**
    - Yes
      - JSF
      - JAGM
  - **Is the MC developing a solution that is independent of other services?**
    - Yes
      - STOVL JSF (coalition)
      - H-1

DOTLPF/Materiel Analysis

- **If new start, describe recommended solutions.**
  - None.

DOTLPFM Impacts

- **If recommended solution is a materiel solution describe DOTMLPF implications.**
  - **No changes to current POR**

Non-Materiel Recommendations

- **Support JCAS ESC**
- **CAS/JCAS TTP/Doctrine Updates**
- **Support JSF Naval variant Mix study.**
- **Continue MAGTF Fires Study**

Materiel Recommendations

- **Maintain current JSF POR**
- **AH-1/UH-1 CPD**
  - **Continue H-1 program restructure**
- **Fund H-1 digital data exchange capability**
- **Continue to support JAGM**
  - **Joint**
- **Continue to support APKWS**
  - **Army to Navy transition**
- **Continue to develop 5” Laser Guided Zuni rockets**
  - **Develop SPD**

Questions